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TECH CENTER 1600/2900

SEQUENCE LISTING

<110> Horwtiz, Marcus A.
Harth, Gunter
Lee, Bai-Yu

<120> Abundant Extracellular Products and
Methods for Their Production and Use

<130> 510030-143

<140> US 08/786,533

<141> 1997-01-21

<150> US 08/568,357

<151> 1995-12-06

<150> US 08/551,149

<151> 1995-10-31

<150> US 08/447,398

<151> 1995-05-23

<150> US 08/289,667

<151> 1994-08-12

<150> US 08/156,358

<151> 1993-11-23

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 35 40 45
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 gcctttgaca agagcgtgtt tgacgacggc ttggcctttg acggctcgtc gattcgcggg 180
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 tcggtgagct tcgactcgcg cgccaacggc tccttctacg aggtggacgc catctcgggg 480
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 <212> DNA
 <213> Mycobacterium tuberculosis

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 cccgaccaga agtcgctgga aaattacatc gccagacgc gcgacaagtt cctcagcgcg 240
 gccacatcgt ccactccacg cgaagcccc tacgaattga atatcacctc ggccacatac 300
 cagtccgcga taccgcccgc tggtagcgag gccgtgggtc tcaaggtcta ccagaacgcc 360
 ggcggcacgc acccaacgac caggtacaag gccttcgatt gggaccaggc ctatcgcaag 420
 ccaatcacct atgacacgct gtggcaggct gacaccgatc cgctgccagt cgtcttcccc 480
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 ggttggaacc ggtgaattat cagaacttcg cagtcacgaa cgacgggggtg attttcttct 600
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<210> 95
 <211> 899
 <212> DNA
 <213> Mycobacterium tuberculosis

<400> 95
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 ccgttggcgc cgctcagggc ggttacgggg cgatggcgct ggcggccttc caccgccacc 480
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 gtgcgatcgc ggcgggcatg cagcaattcg gcggtgtgga caccaacgga atgtggggag 600
 caccacagct gggtcggtgg aagtggcacg acccggtggg gcatgccagc ctgctggcgc 660
 aaaacaacac ccgggtgtgg gtgtggagcc cgaccaaccc gggagccagc gatcccgcgc 720
 ccatgatcgg ccaagccgcc gaggcgatgg gtaacagccg catgttctac aaccagtatc 780
 gcagcgtcgc cgggcacaaac ggacacttcg acttcccagc cagcgggtgac aacggctggg 840
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<210> 96
 <211> 15
 <212> PRT
 <213> Mycobacterium tuberculosis

<400> 96
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<210> 97
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 <213> Mycobacterium tuberculosis

<400> 97
 Leu Pro Val Glu Tyr Leu Gln Val Pro Ser Pro Ser Met Gly Arg
 1 5 10 15

<210> 98
<211> 15
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<213> Mycobacterium tuberculosis

<400> 98
Leu Gln Val Pro Ser Pro Ser Met Gly Arg Asp Ile Lys Val Gln
1 5 10 15

<210> 99
<211> 15
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<400> 99
Pro Ser Met Gly Arg Asp Ile Lys Val Gln Phe Gln Ser Gly Gly
1 5 10 15

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<213> Mycobacterium tuberculosis

<400> 100
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1 5 10

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<211> 15
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<400> 101
Phe Gln Ser Gly Gly Ala Asn Ser Pro Ala Leu Tyr Leu Leu Asp
1 5 10 15

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<212> PRT
<213> Mycobacterium tuberculosis

<400> 102
Ala Asn Ser Pro Ala Leu Tyr Leu Leu Asp Gly Leu Arg Ala Gln
1 5 10 15

<210> 103
<211> 15
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<213> Mycobacterium tuberculosis

<400> 103
Leu Tyr Leu Leu Asp Gly Leu Arg Ala Gln Asp Asp Phe Ser Gly
1 5 10 15

<210> 104
<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

<400> 104

Gly	Leu	Arg	Ala	Gln	Asp	Asp	Phe	Ser	Gly	Trp	Asp	Ile	Asn	Thr
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<210> 105

<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

<400> 105

Asp	Asp	Phe	Ser	Gly	Trp	Asp	Ile	Asn	Thr	Pro	Ala	Phe	Glu	Trp
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<210> 106

<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

<400> 106

Trp	Asp	Ile	Asn	Thr	Pro	Ala	Phe	Glu	Trp	Tyr	Asp	Gln	Ser	Gly
1				5					10				15	

<210> 107

<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

<400> 107

Pro	Ala	Phe	Glu	Trp	Tyr	Asp	Gln	Ser	Gly	Leu	Ser	Val	Val	Met
1				5					10					15

<210> 108

<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

<400> 108

Tyr	Asp	Gln	Ser	Gly	Leu	Ser	Val	Val	Met	Pro	Val	Gly	Gly	Gln
1				5					10					15

<210> 109

<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

<400> 109

Leu	Ser	Val	Val	Met	Pro	Val	Gly	Gly	Gln	Ser	Ser	Phe	Tyr	Ser
1				5					10					15

<210> 110

<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

<400> 110
 Pro Val Gly Gly Gln Ser Ser Phe Tyr Ser Asp Trp Tyr Gln Pro
 1 5 10 15

<210> 111
 <211> 15
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 <213> Mycobacterium tuberculosis

<400> 111
 Ser Ser Phe Tyr Ser Asp Trp Tyr Gln Pro Ala Cys Gly Lys Ala
 1 5 10 15

<210> 112
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 <213> Mycobacterium tuberculosis

<400> 112
 Asp Trp Tyr Gln Pro Ala Cys Gly Lys Ala Gly Cys Gln Thr Tyr
 1 5 10 15

<210> 113
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<400> 113
 Ala Cys Gly Lys Ala Gly Cys Gln Thr Tyr Lys Trp Glu Thr Phe
 1 5 10 15

<210> 114
 <211> 15
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 <213> Mycobacterium tuberculosis

<400> 114
 Gly Cys Gln Thr Tyr Lys Trp Glu Thr Phe Leu Thr Ser Glu Lys
 1 5 10 15

<210> 115
 <211> 15
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 <213> Mycobacterium tuberculosis

<400> 115
 Lys Trp Glu Thr Phe Leu Thr Ser Glu Leu Pro Gly Trp Leu Gln
 1 5 10 15

<210> 116
 <211> 15
 <212> PRT
 <213> Mycobacterium tuberculosis

<400> 116
 Leu Thr Ser Glu Leu Pro Gly Trp Leu Gln Ala Asn Arg His Val
 1 5 10 15

<210> 117
<211> 15
<212> PRT
<213> Mycobacterium tuberculosis

<400> 117
Pro Gly Trp Leu Gln Ala Asn Arg His Val Lys Pro Thr Gly Ser
1 5 10 15

<210> 118
<211> 15
<212> PRT
<213> Mycobacterium tuberculosis

<400> 118
Ala Asn Arg His Val Lys Pro Thr Gly Ser Ala Val Val Gly Lys
1 5 10 15

<210> 119
<211> 15
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<213> Mycobacterium tuberculosis

<400> 119
Ala Pro Thr Gly Ser Ala Val Val Gly Leu Ser Met Ala Ala Ser
1 5 10 15

<210> 120
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<213> Mycobacterium tuberculosis

<400> 120
Ala Val Val Gly Leu Ser Met Ala Ala Ser Ser Ala Leu Thr Leu
1 5 10 15

<210> 121
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<213> Mycobacterium tuberculosis

<400> 121
Ser Met Ala Ala Ser Ser Ala Leu Thr Leu Ala Ile Tyr His Pro
1 5 10 15

<210> 122
<211> 15
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<400> 122
Ser Ala Leu Thr Leu Ala Ile Tyr His Pro Gln Gln Phe Val Tyr
1 5 10 15

<210> 123
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<212> PRT

<213> Mycobacterium tuberculosis

<400> 123

Ala	Ile	Tyr	His	Pro	Gln	Gln	Phe	Val	Tyr	Ala	Gly	Ala	Met	Ser
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<210> 124

<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

<400> 124

Gln	Gln	Phe	Val	Tyr	Ala	Gly	Ala	Met	Ser	Gly	Leu	Leu	Asp	Pro
1				5					10				15	

<210> 125

<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

<400> 125

Ala	Gly	Ala	Met	Ser	Gly	Leu	Leu	Asp	Pro	Ser	Gln	Ala	Met	Gly
1				5					10				15	

<210> 126

<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

<400> 126

Gly	Leu	Leu	Asp	Pro	Ser	Gln	Ala	Met	Gly	Pro	Thr	Leu	Ile	Gly
1				5					10				15	

<210> 127

<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

<400> 127

Ser	Gln	Ala	Met	Gly	Pro	Thr	Leu	Ile	Gly	Leu	Ala	Met	Gly	Asp
1				5					10				15	

<210> 128

<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

<400> 128

Ser	Thr	Leu	Ile	Gly	Leu	Ala	Met	Gly	Asp	Ala	Gly	Gly	Tyr	Lys
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<210> 129

<211> 15

<212> PRT

<213> Mycobacterium tuberculosis

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1 5 10 15

<210> 130
<211> 15
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<213> Mycobacterium tuberculosis

<400> 130
Ala Gly Gly Tyr Lys Ala Ser Asp Met Trp Gly Pro Lys Glu Asp
1 5 10 15

<210> 131
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<213> Mycobacterium tuberculosis

<400> 131
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<210> 132
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<400> 132
Gly Pro Lys Glu Asp Pro Ala Trp Gln Arg Asn Asp Pro Leu Leu
1 5 10 15

<210> 133
<211> 15
<212> PRT
<213> Mycobacterium tuberculosis

<400> 133
Pro Ala Trp Gln Arg Asn Asp Pro Leu Leu Asn Val Gly Lys Leu
1 5 10 15

<210> 134
<211> 15
<212> PRT
<213> Mycobacterium tuberculosis

<400> 134
Asn Asp Pro Leu Leu Asn Val Gly Lys Leu Ile Ala Asn Asn Thr
1 5 10 15

<210> 135
<211> 15
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<213> Mycobacterium tuberculosis

<400> 135
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1 5 10 15

<210> 136
<211> 15
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<213> Mycobacterium tuberculosis

<400> 136
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1 5 10 15

<210> 137
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<213> Mycobacterium tuberculosis

<400> 137
Arg Val Trp Val Tyr Cys Gly Asn Gly Lys Pro Ser Asp Leu Gly
1 5 10 15

<210> 138
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<400> 138
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1 5 10 15

<210> 139
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<212> PRT
<213> Mycobacterium tuberculosis

<400> 139
Pro Ser Asp Leu Gly Gly Asn Asn Leu Pro Ala Lys Phe Leu Glu
1 5 10 15

<210> 140
<211> 15
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<213> Mycobacterium tuberculosis

<400> 140
Gly Asn Asn Leu Pro Ala Lys Phe Leu Glu Gly Phe Val Arg Thr
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<210> 141
<211> 15
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<213> Mycobacterium tuberculosis

<400> 141
Gly Lys Phe Leu Glu Gly Phe Val Arg Thr Ser Asn Ile Lys Phe
1 5 10 15

<210> 142
<211> 15

<212> PRT
 <213> Mycobacterium tuberculosis

 <400> 142
 Gly Phe Val Arg Thr Ser Asn Ile Lys Phe Gln Asp Ala Tyr Asn
 1 5 10 15

 <210> 143
 <211> 15
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 <213> Mycobacterium tuberculosis

 <400> 143
 Ser Asn Ile Lys Phe Gln Asp Ala Tyr Asn Ala Gly Gly Gly His
 1 5 10 15

 <210> 144
 <211> 15
 <212> PRT
 <213> Mycobacterium tuberculosis

 <400> 144
 Gln Asp Ala Tyr Asn Ala Gly Gly Gly His Asn Gly Val Phe Asp
 1 5 10 15

 <210> 145
 <211> 15
 <212> PRT
 <213> Mycobacterium tuberculosis

 <400> 145
 Ala Gly Gly Gly His Asn Gly Val Phe Asp Phe Pro Asp Ser Gly
 1 5 10 15

 <210> 146
 <211> 15
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 <400> 146
 Asn Gly Val Phe Asp Phe Pro Asp Ser Gly Thr His Ser Trp Glu
 1 5 10 15

 <210> 147
 <211> 15
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 <213> Mycobacterium tuberculosis

 <400> 147
 Phe Pro Asp Ser Gly Thr His Ser Trp Glu Tyr Trp Gly Ala Gln
 1 5 10 15

 <210> 148
 <211> 15
 <212> PRT
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<400> 148
 Thr His Ser Trp Glu Tyr Trp Gly Ala Gln Leu Asn Ala Met Lys
 1 5 10 15

<210> 149
 <211> 15
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 <213> Mycobacterium tuberculosis

<400> 149
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<210> 150
 <211> 15
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<400> 150
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 1 5 10 15

<210> 151
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 <213> Mycobacterium tuberculosis

<400> 151
 Pro Asp Leu Gln Arg Ala Leu Gly Ala Thr Pro Asn Thr Gly Pro
 1 5 10 15

<210> 152
 <211> 15
 <212> PRT
 <213> Mycobacterium tuberculosis

<400> 152
 Ala Leu Gly Ala Thr Pro Asn Thr Gly Pro Ala Pro Gln Gly Ala
 1 5 10 15

<210> 153
 <211> 18
 <212> PRT
 <213> Mycobacterium tuberculosis

<400> 153
 Phe Ser Arg Pro Gly Leu Pro Val Glu Tyr Leu Gln Val Pro Ser Pro
 1 5 10 15
 Ser Met

<210> 154
 <211> 16
 <212> PRT
 <213> Mycobacterium tuberculosis

<400> 154

Asp Ile Lys Val Gln Phe Gln Ser Gly Gly Ala Asn Ser Pro Ala Leu
1 5 10 15

<210> 155

<211> 17

<212> PRT

<213> Mycobacterium tuberculosis

<400> 155

Pro Val Gly Gly Gln Ser Ser Phe Tyr Ser Asp Trp Tyr Gln Pro Ala
1 5 10 15
Cys

<210> 156

<211> 17

<212> PRT

<213> Mycobacterium tuberculosis

<400> 156

Ser Met Ala Ala Ser Ser Ala Leu Thr Leu Ala Ile Tyr His Pro Gln
1 5 10 15
Gln

<210> 157

<211> 18

<212> PRT

<213> Mycobacterium tuberculosis

<400> 157

Pro Gln Gln Phe Val Tyr Ala Gly Ala Met Ser Gly Leu Leu Asp Pro
1 5 10 15
Ser Gln

<210> 158

<211> 17

<212> PRT

<213> Mycobacterium tuberculosis

<400> 158

Cys Gly Asn Gly Lys Pro Ser Asp Leu Gly Gly Asn Asn Leu Pro Ala
1 5 10 15
Lys

<210> 159

<211> 16

<212> PRT

<213> Mycobacterium tuberculosis

<400> 159

Phe Gln Asp Ala Tyr Asn Ala Gly Gly Gly His Asn Gly Val Phe Asp
1 5 10 15

<210> 160

<211> 14

<212> PRT

<213> Mycobacterium tuberculosis

<400> 160

Pro Asp Leu Gln Arg Ala Leu Gly Ala Thr Pro Asn Thr Gly
1 5 10

